## NOV 2.5 SOUN SE NOV 2.5 SOUN SE PARTA TRADENSE

## SEQUENCE LISTING

<110> GALZI, JEAN-LUC ALIX, PHILIPPE

<120> USE OF A FLUORESCENT PROTEIN FOR DETECTING INTERACTION BETWEEN A TARGET PROTEIN AND ITS LIGAND

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<141>

<150> PCT/FR98/01136

<151> 1998-06-04

<150> FR 97/06977

<151> 1997-06-05

<160> 25

<170> PatentIn Ver. 2.1

<210> 1

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<213> Aequorea Victoria

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Met Val Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu

1 5 10 15

gtc gag ctg gac ggc gac gta aac ggc cac aag ttc agc gtg tcc ggc 96
Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly
20 25 30

gag ggc gag ggc gat gcc acc tac ggc aag ctg acc ctg aag ttc atc 144 Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile 35 40 45

tgc acc acc ggc aag ctg ccc gtg ccc tgg ccc acc ctc gtg acc acc

Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr

50 55 60

ctg acc tac ggc gtg cag tgc ttc agc cgc tac ccc aac cac atg aag
Leu Thr Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys
65 70 75 80

cag cac gac ttc ttc aag tcc gcc atg ccc gaa ggc tac gtc cag gag 288 Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu

85 90 95

| _    |            |   |   |   | _          | _ | _ |                   |     |   | _ |   | _ | gcc<br>Ala        |   | 336 |
|------|------------|---|---|---|------------|---|---|-------------------|-----|---|---|---|---|-------------------|---|-----|
|      | _          |   | _ |   | _          |   | _ | _                 |     | _ |   |   | _ | aag<br>Lys        |   | 384 |
|      |            |   |   |   |            |   |   |                   |     |   |   |   |   | gag<br>Glu        |   | 432 |
|      |            |   | _ |   |            | _ |   |                   | _   | _ | _ | _ | _ | aag<br>Lys        |   | 480 |
|      |            | _ |   |   |            |   |   | _                 |     |   |   |   | _ | ggc<br>Gly<br>175 | _ | 528 |
|      | _          |   | _ | _ |            |   | _ | -                 |     |   |   |   |   | gac<br>Asp        |   | 576 |
|      |            | _ | _ |   | _          |   |   |                   | _   | _ |   | _ |   | gcc<br>Ala        | _ | 624 |
| _    | Lys<br>210 | _ |   |   |            | _ | _ | _                 |     | _ | _ | _ | _ | gag<br>Glu        |   | 672 |
|      |            | _ | _ |   |            |   |   |                   | _   | _ |   | _ |   | aag<br>Lys        |   | 720 |
|      |            |   |   |   |            |   |   |                   |     |   |   |   |   | ccg<br>Pro<br>255 |   | 768 |
| _    |            | _ |   | _ | gat<br>Asp |   | _ | aac<br>Asn<br>265 | tga |   |   |   |   |                   |   | 798 |
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<211> 265 <212> PRT

<213> Aequorea victoria

Met Val Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu
1 5 10 15

Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly

Glu Gly Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile 35 40 45

Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr 50 60

Leu Thr Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys 65 70 75 80

Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu 85 90 95

Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu
100 105 110

Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly
115 120 125

Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr 130 135 140

Gly Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser 165 170 175

Val Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly 180 185 190

Pro Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu 195 200 205

Ser Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe 210 215 220

Val Thr Ala Ala Gly Ile Thr Leu Gly Met Asp Glu Leu Tyr Lys Tyr 225 230 235 240

Ser Asp Leu Glu Leu Lys Leu Arg Ile Leu Gln Ser Thr Val Pro Arg 245 250 255

Ala Arg Asp Pro Pro Asp Leu Asp Asn 260 265

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<220>

<223> Description of Artificial Sequence: spacer sequence

<400> 3

Gly Gly Gly Ser

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Gln Trp Phe Gly Leu Met
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      Oligonucleotide
<400> 5
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ggtcgccacc ctgtacaaga agggcgagg
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<211> 36
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cacgagagga tgtacaacct cgagcgcaca gtcacc
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<213> Artificial Sequence
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<210> 15
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<210> 16
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<212> DNA
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<223> Description of Artificial Sequence:
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<210> 17
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| <400> 17 . agcacagagg gcagtagcaa tgaggatgac agcgaggcgt gccgcggaga ccttcattgg atcccgaagc ttatcaac     | 60<br>78 |
|--|----------|
| <210> 18 <211> 78 <212> DNA <213> Artificial Sequence  |          |
| <220> <223> Description of Artificial Sequence: Oligonucleotide                                      |          |
| <400> 18 attgctactg ccctctgtgc tcctgcatct gcctccccat attcctcgga caccacacca                           | 60<br>78 |
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| <400> 19<br>gcacttgcca ctggtgtaga aatactcctt gatgtgggca caaggcagtg ggcgggcaat<br>gtaggcgaag cagcatgg | 60<br>78 |
| <210> 20<br><211> 78<br><212> DNA<br><213> Artificial Sequence                                       |          |
| <220> <223> Description of Artificial Sequence: Oligonucleotide                                      |          |
| <400> 20<br>gcacttgcca ctggtgtaga aatactcctt gatgtgggca cggggcagtg ggcgagcaat<br>gtaggcaaag cagcatgg | 60<br>78 |
| <210> 21<br><211> 69<br><212> DNA<br><213> Artificial Sequence                                       |          |
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. . .

| ctageteate tecagegagt tgatgtaete eegaaceeat ttettetetg ggttggeaca<br>aaettgaeg | 60<br>69 |
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| <400> 22<br>aactcgctgg agatgagcta ggcggccgct cgaggtcgac ctagtcacta             | 50       |
| <210> 23<br><211> 21<br><212> DNA<br><213> Artificial Sequence                 |          |
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| <400> 23<br>tagtgactag gtcgacctcg a  | 21       |
| <210> 24<br><211> 41<br><212> DNA<br><213> Artificial Sequence                 |          |
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| <400> 24<br>geggeegeat gggggateet actetggagt ceateatgge g                      | 41       |
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